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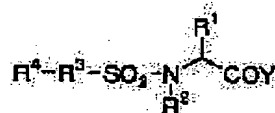
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(54) MMP-8 INHIBITOR

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain an inhibitor of MMP-8, which is a kind of matrix meta- protease(MMP), of and useful as a medicament capable of inhibiting the crisis and progression of morbid states accompanied with histotripsy such as chronic rheumatoid arthritis, arthrosis deformans, etc., by using a novel sulfonamide derivative.
 SOLUTION: This MMP-8 inhibitor contains a compound expressed by formula I {R1 is a (substituted) lower alkyl or a (substituted) aryl; R2 is H, a lower alkyl or an aralkyl; R3 is a group of formula III or a single bond; R4 is a group expressed by formula III [R5 is H, a (substituted) lower alkyl or the like], 2-halophenyl or the like; Y is NHOH or OH}, its optically active substance, their pharmaceutically allowable salts or their hydrate. The compound of the formula I is obtained, e.g. by reacting a compound expressed by R4-R3-SO2-Hal with an α -amino acid of formula IV (R7 is H or a carboxy-protected group).



II



III



LEGAL STATUS

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